



Atty. Dkt. No. 032026-0754

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

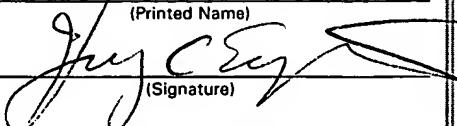
Applicant: Luke J. Mawst, et al.

Title: TYPE II QUANTUM WELL MID-INFRARED OPTOELECTRONIC DEVICES

Appl. No.: 10/772,573

Filing Date: February 5, 2004

Art Unit: 2811

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| CERTIFICATE OF MAILING | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below. | |
| Harry C. Engstrom (Printed Name) | |
|  (Signature) | |
| July 30, 2004 (Date of Deposit) | |

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal

Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English and relate to semiconductor lasers. Most of these documents are also discussed in the present application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-2350. Should no proper payment be enclosed herewith, as by a check

being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-2350.

Respectfully submitted,

By 

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Dated: July 30, 2004

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| Form PTO-1449 (MODIFIED) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 032026-0754 | SERIAL NO. 10/772,573 |
| INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> | | APPLICANT | | Luke J. Mawst, et al. | |
| | | FILING DATE | | GROUP ART UNIT | |
| | | 02/05/2004 | | 2811 | |

U.S. PATENT DOCUMENTS

| EXAMINER INITIA L | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE IF APPROPRIATE |
|-------------------|-----|-----------------|---------|----------------------|----------------|-----------|----------------------------|
| | | 5,793,787 | 8/11/98 | Meyer, et al. | O I P E | SEARCHED | |
| | | 2004-0061102 | 4/1/04 | Tansu | AUG 03 2004 | INDEXED | |
| | | 5,383,211 | 1/95 | Van de Walle, et al. | PATENT & TRADE | SEARCHED | |
| | | 6,621,842 | 9/03 | Dapkus | SEARCHED | INDEXED | |
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FOREIGN PATENT DOCUMENTS

| REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION | |
|-----|-----------------|---------|---------|-------|-----------|-------------|----|
| | | | | | | YES | NO |
| | WO 01/29943 | 4/26/01 | PCT | | | | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| EXAMINER | DATE CONSIDERED |
| * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant. | |